

SAN JUAN RIVER BASIN

09379100 LONG HOUSE WASH NEAR KAYENTA, AZ

LOCATION.--Lat 36°34'02", long 110°29'17", Navajo County, Hydrologic Unit 15020018, at U.S. Highway 160, 17 mi southwest of Kayenta.

DRAINAGE AREA.--1.38 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1962	00-00-62	960		1970	09-05-70	480	
1963	08-06-63	548		1971	08-00-71	590	
1964	07-31-64	1,150		1972	00-00-72	10	ES
1965	00-00-65	0		1973	10-19-72	150	
1966	08-31-66	1,120		1974	07-00-74	123	
1967	07-30-67	2,060		1975	09-08-75	960	
1968	08-00-68	96		1976	00-00-76	1.0	ES
1969	08-03-69	5.0	ES				

Magnitude and probability of instantaneous peak flow based on period of record 1962-76

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2† 50%	5† 20%	10† 10%	25† 4%	50† 2%	100† 1%
304	1,000	1,760	3,100	4,380	5,880
Weighted skew	(logs) =	-0.40			
Mean	(logs) =	2.44			
Standard dev.	(logs) =	0.66			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
236	1.1	6,920	57.0	3.0	12.0	1.4	2.9

